



# GREENHOUSE EFFECT AND GLOBAL WARMING

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## ABSTRACT

We face Conflicts between human development and nature Capacity to Provide The resources for such development. This is a great paradox the countries that have most benefited from industrial development by producing greenhouse gases. The atmosphere surrounding the earth, heats the soil and the Plants also. Greenhouse is the body which allows the short wave length incoming solar radiation to come in but does not allow the long wave outgoing terrestrial infrared radiation to scope in a way and atmosphere energy going up. Green house where co<sub>2</sub> acts as like a glass windows. Co<sub>2</sub> and water Vapors in the atmosphere transmit short wave length solar radiation but reflect the longer wave length heat radiation from warmed surface of the co<sub>2</sub> molecules are transparent to sunlight but not to the heat re action .So the trap and re enforce the solar heat stimulating an effect which is properly known as Greenhouse effect.

**KEYWORDS:** Greenhouse, co<sub>2</sub>, radiation.

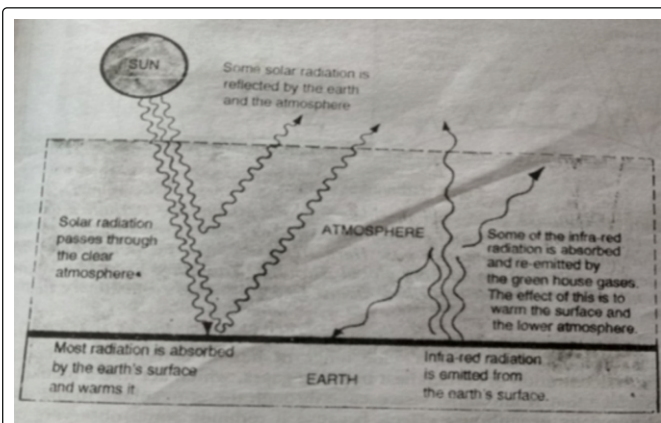
## Objective:

The key objective of this articles to find out key reasons for Global Warming and green house gas (Cause).

## INTRODUCTION:

The Global Warming due to fossil fuel sources increasing Co<sub>2</sub> in atmosphere Temperature influence on the overall.

Green house where Co<sub>2</sub> acts likes glass windows Co<sub>2</sub> and water vapors in the atmosphere transmit short wave length solar radiation but he reflect the longer wave length heat radiation from warmed surface of the earth Co<sub>2</sub> molecules are transparent to sun light but not to the heat radiation so they trap and re-enforce the solar heat stimulating an effect which is popularly known as greenhouse effect. The presence study shows that.



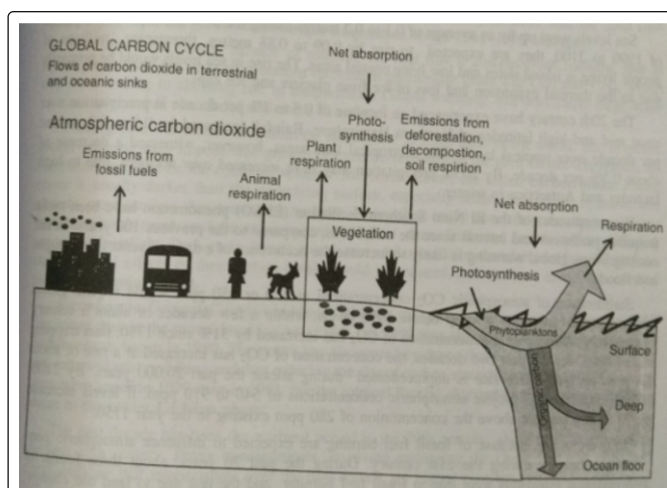
**Fig. 1: Simplified representation of global warming**

Human activities are changing the composition as well as behavior of the atmosphere at an unprecedented rate.

The pollutants form wide ranged of human activities are increasing the global atmospheric concentration of certain heat trapping gases. Which act like a Blanket.

A new study by the national aeronautics and space administration (NASA) scientist has found that the world temperature is reaching a level that has not been in thousands of year.

The study says that because of a rapid warming trend over the past 30 years the earth is now reaching and passing through the warmest levels in the currents interglacial period which has lasted nearly 12000 years.



**Fig. 2: Global carbon cycle**

Different gases from different sources contributing the greenhouse effects

1. Carbon dioxide from deforestation	- 20%
2. Carbon dioxide from oil and gas and non-power use of coal.	- 20%
3. Methane from ruminants rice paddies pipeline leakage.	- 14%
4. Carbon dioxide form coalfield power station.	- 10%
5. Chloro fluoro carbon (CFC) from aerosols refrigerators etc.	- 14%
6. Tropospheric ozone from air pollution (produced as a result of photochemical reaction of sunlight, oxygen, nitrogen oxide and volatile organic compounds.	- 12%
7. Nitrous Oxide form fertilizer and air exhausts.	- 6%

Data showed the earth has been warming at the remarkable rapid rate of approximately 0.2°C per decade for the past 30 years.

Man made green house effect gases carbon dioxide, methane, nitrous oxide chloro fluoro carbon are increasing atmospheric temperature.

1. As like Co<sub>2</sub> --Carbon  
20,000 Year ago carbon dioxide 200 P.P. Am. at percent 379 P.P. Am. North America Producing 25% , China 2.6%, India 2.8% due to vehicle. Industry thermal power, coal, natural gases filling

2. Methane → Carbon + Hydrogen (.0002%) Carbon 0.314% less than Carbon 0.314% but Radiation x 21 Green house effects increasing day by day.

Sources: Paddy Cultivation, mining. 52.2 Crore tun.

**Age of Green House Gas in atmosphere:**

Gas	Life Cycle
Carbon dioxide	-50-100 Years.
Methane	-10 Years.
C.F.C. 11	-65 Years.
C.F.C 17	-130 Years.
Nitrous oxide	-150 Years.

Global Warming and Gases.

1. Carbon dioxide causes up to 57% of global warming.
2. Chloro floro carbons cause up to 25% of global warming.
3. Methane about 12% of global warming.
4. Nitrogen up to 6% of global warming.

Today the biosphere is warmer by 0.60C than it was before per industrial era.

**DATA AND METHODOLOGY:**

Secondary data and explanatory method is used to analysis. the reasons for global warming in India ordinary data which have been taken different books, magazines, paper.

**Reasons for global warming and greenhouse gases:**

Degradation and pollution Consequents to the (Fertilizer and peptizes) it's affects earth climate forest are not evenly distributed in relation to the population.

**CONCLUSIONS:**

It is high time when serious steps need to be taken to control this phenomenon of global warming. overall impacts of global warming Global warming would affect practically every thing that is part of component of the biosphere:

1. It would cause severe natural disasters like floods, drought.
2. Affects the climate.
3. It would effects human like.
4. Shortage of food would be serious problem as it would affect crop production an entire agriculture.

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